

# **SERVICE MANUAL**

# 

**DC Integrated Stereo Amplifier** 

#### NOTES

- 1. In this manual, 0 dB is referenced to 1V.
- A Parts marked with this sign are safety critical components. They
  must always be replaced with identical components refer to the
  appropriate parts list and ensure exact replacements.
- 3. PC boards shown are viewed from foil side.

# 1 SPECIFICATIONS

Power Output

35 Watts per channel minimun RMS, both channels driven at 8 ohms.

Total Harmonic Distortion

AUX input to SPEAK 0.3% (20---20kHz, at

35W+35W Output Power)

Frequency Response

25 Hz to 32 kHz 0/-3dB

Input sensitivity/Impedance

Phono 2---4mV/47 kohm

Tuner, CD/AUX, TAPE 80---120mV/47kohm

Signal-to-Noise Ratio (IEC-A)

Phono 65dB

Tuner, CD/AUX, Tape 87dB

Output level/Impedance

Tape REC 80---120mV/47kohm

Tone Control

Bass +/-10dB at 100Hz

Trable +/-10dB at 10kHz

Loudness Control

+8dB at 100Hz (at -30dB VOLUME level)

High Filter

-6dB at 10kHz

Power Requirement

110/220V AC, 50/60Hz, 160W (General Export)

120V AC, 60Hz, 160W (USA/CANADA)

220V AC, 50Hz, 160W (Europe)

240V AC, 50Hz, 160W (UK/Australia)

Dimensions

435×90×300 mm (17½" × 3½" × 11½")

Weight

5.7kg (12.5lbs.)

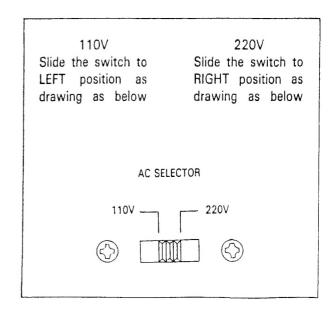
• Improvements may result in specifiction or feature changes without notice.

## 2 VOLTAGE CONVERSION

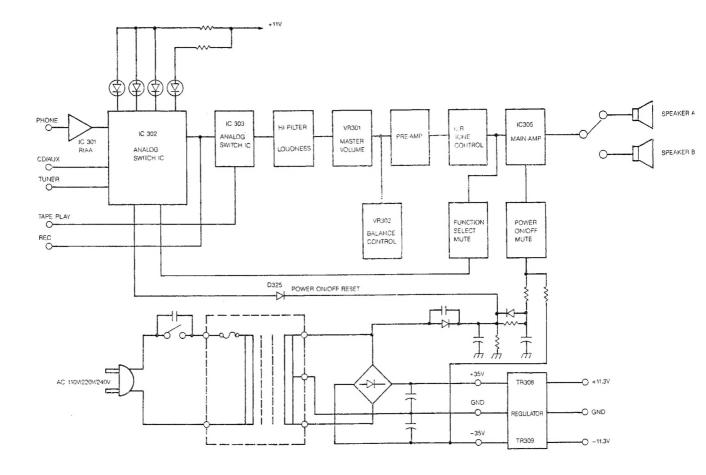
(FOR GENERAL EXPORT MODELS ONLY)

## **AC VOLTAGE SELECTION**

This unit operates on 110 volts or 220 volts AC. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

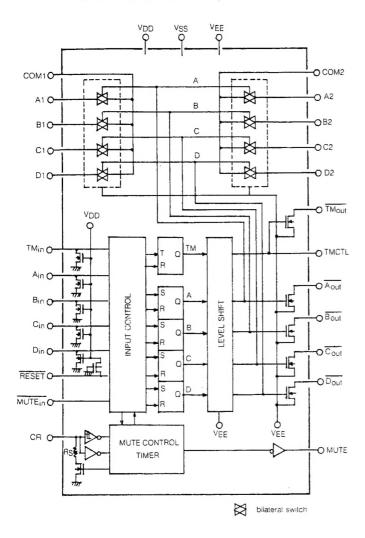


# **3 BLOCK DIAGRAM**

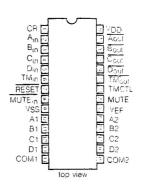


# 4. IC BLOCK DIAGRAM

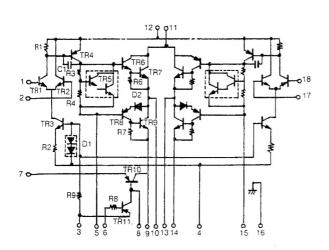
#### LC7815 Equivalent Circuit Block Diagram



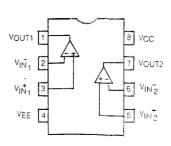
## Pin Assignment



## STK4171II Equivalent Circuit Diagram



#### **LA6458D** (TA75558P) Equivalent Circuit Diagram

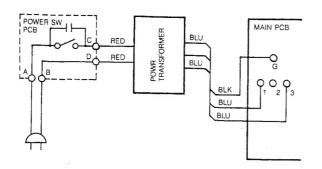


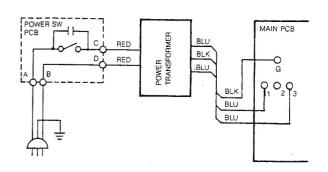
# A-X35mkI

# **5. WIRING DIAGRAM**

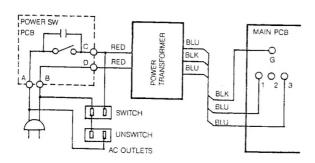
AC 220V 50Hz (VDE)

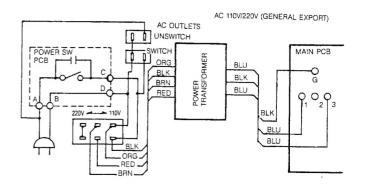
AC240V 50Hz (UK, AUSTRALIA)



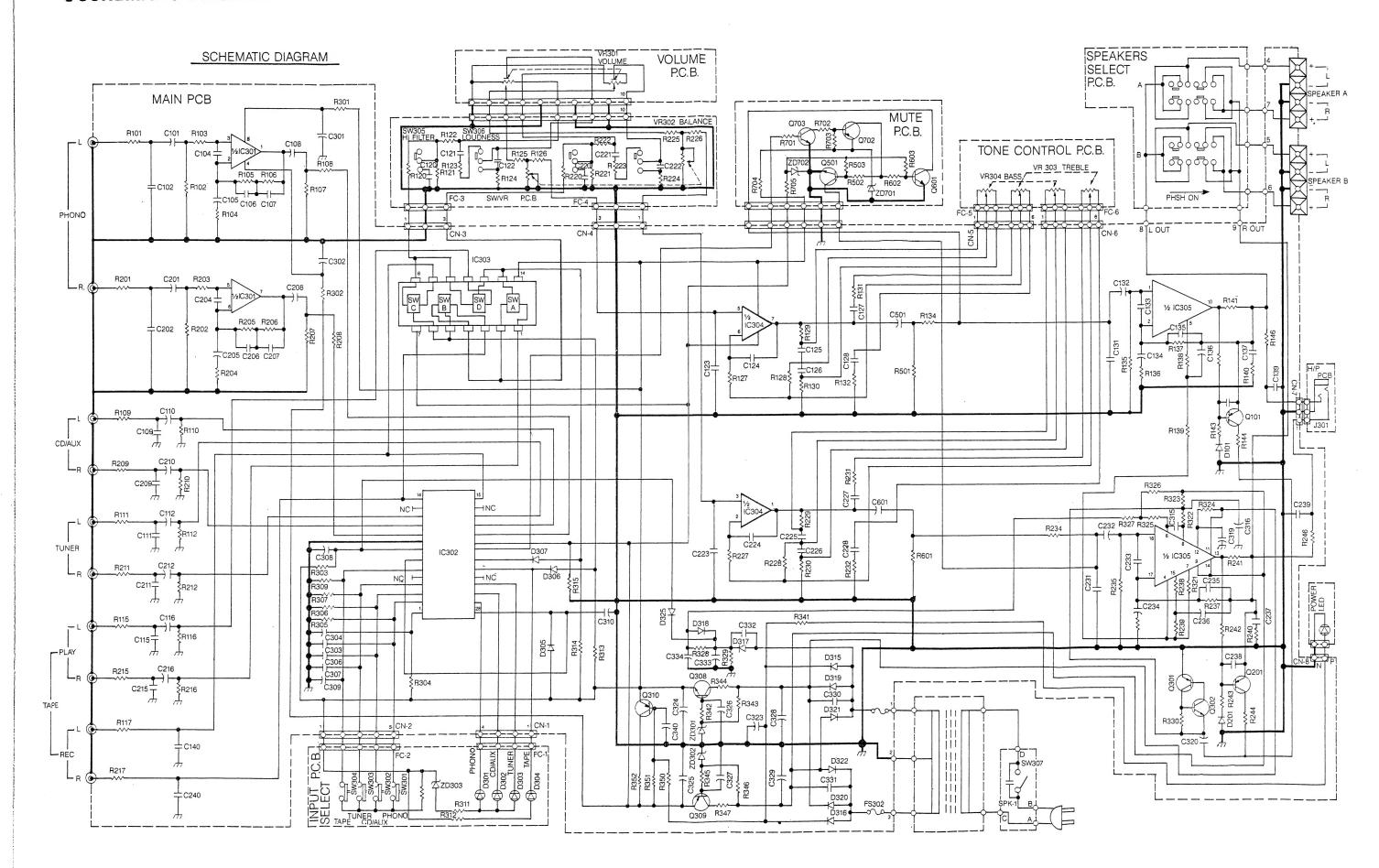


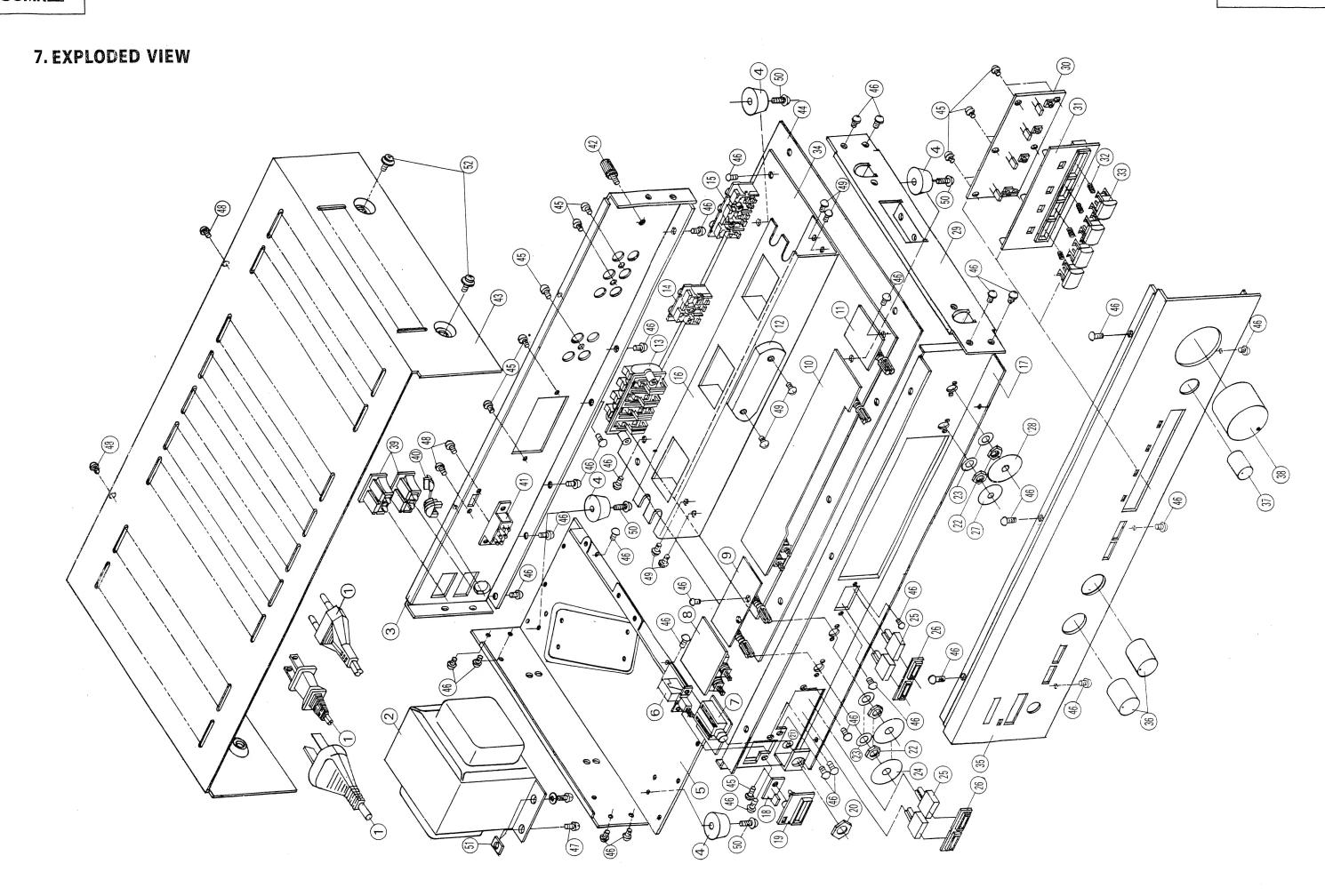






# **6 SCHEMATIC DIAGRAM**





# А-Х35мкШ

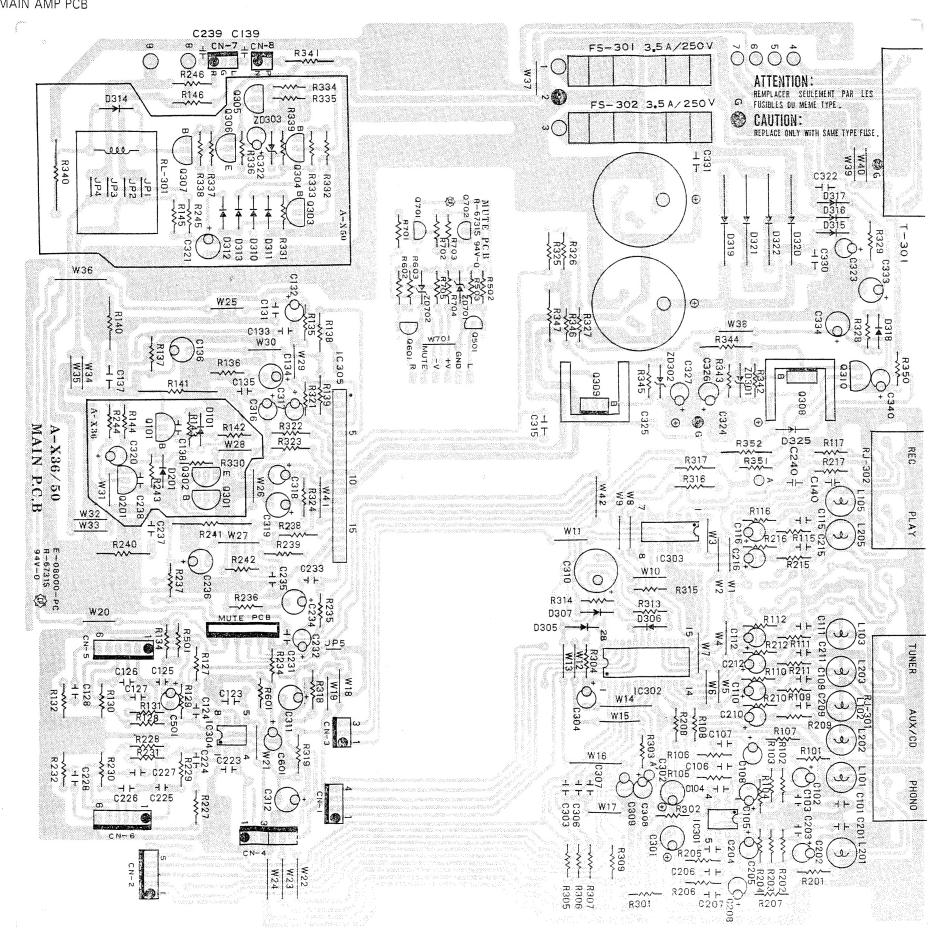
# 8 EXPLODED VIEW PARTS LIST

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1.	E-WI-010-00	Power supply cord, SAA	
	E-WI-008-00	Power supply cord, EX	
	E-WI-009-00	Power supply cord, VDE	
	E-WI-011-00	Power supply cord, UK	
	E-WI-012-00	Power supply cord, UL/CSA	
2.	E-PT-008-00	Power transformer, VDE	
2.	E-PT-009-00	Power transformer, EX	
	E-PT-010-00	Power transformer, UL/CSA	
	E-PT-011-00	Power transformer, UK/SAA	
		Rear panel, VDE	
3.	F-PN-009-00	Rear panel, UK/SAA	
	F-PN-010-00	Rear panel, EX	
	F-PN-011-00	Rear panel, UL/CSA	
	F-PN-012-00	Rubber feet	
4.	F-RB-006-00		
5.	F-CH-014-00	Side chassis, Left	
6.	Z-SD-015-00	Power SW P.C.B. ass'y	
7.	E-JK-016-00	Headphone jack	
8.	Z-SB-016-00	Speaker select P.C.B. ass'y	
9.	Z-SB-014-00	Tone control P.C.B. ass'y	
10.	Z-SB-011-00	VR/SW P.C.B. ass'y	
11.	Z-SB-013-00	Volume P.C.B. ass'y	
12.	A-IC-021-00	IC, STK-4171MKV	
13.	E-JK-011-00	Speaker jack PJ-208AS	
14.	E-JK-007-00	RCA jack PJ-204NP	
15.	E-JK-009-00	RCA jack PJ-206NP	
16.	F-AL-015-00	Heat sink, Power IC	
17.	F-CH-013-00	Front chassis, A-X35MK2	
18.	Z-SB-018-00	LED P.C.B. ass'y	
19.	P-FR-010-00	Power switch frame	
20.	S-NT-003-00	H/P jack nut	
21.	S-WA-006-00	H/P washer	
22.	S-NT-004-00	VR nut	
23.	S-WA-004-00	VR washer	
24.	F-XT-003-00	Himelon colth, (M)	
25.	P-KB-013-00	Push SW knob	
26.	P-FR-012-00	Push SW frame	
27.	F-XT-002-00	Himelon cloth (S)	
28.	F-XT-004-00	Himelon cloth (L)	
29.	F-CH-015-00	Side Chassis, right	
30.	Z-SB-012-00	Function P.C.B. ass'y	
31.	P-FR-011-00	Function SW frame	
32.	F-XT-008-00	Function SW spring	
33.	P-KB-025-00	Function SW knob	
34.	Z-SB-001-00	Main P.C.B. ass'y	
35.	F-AL-008-00	AL. panel A-X35MK2	
36.	P-KB-010-00	VR knob, (M)	
37.	P-KB-009-00	VR knob, (S)	
38.	P-KB-011-00	VR knob, (L)	
	E-JK-012-00	AC outlet	
39.	P-RB-003-00	AC cord busher	
40.	E-SW-013-00	Voltage select switch 110/220	
41.	P-RB-009-00	Earth screw	
42.	F-CH-012-00	Top chassis	
43.		Button sheet	
44.	F-ST-003-00 S-TB-003-00	Screw T/R 3×8 (B)	
45.		Screw T/CRS 3×6	
46.	S-CZ-001-00	Screw M/B 4×8	
47.	S-MZ-003-00	Screw M/R 3×6 (B)	
48.	S-MB-001-00	Screw T/CRS 3×10	
49.	S-CZ-003-00		
50.	S-TB-005-00	Screw T/R 3×15 (B)	
51.	S-SH-002-00	Screw holder M-4	
52.	S-MB-005-00	Screw M/R 4×6 (B) w/washer	
53.	K-XK-006-00	Owner's manual, A-X35MK2	
54.	K-PL-003-00	Side pack	
55.	K-PB-001-00	Ploy-bag, body	
56	K-CT-015-00	Inner carton, A-X35MK2	
57.	K-CT-014-00	Outer carton, A-X35MK2	
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# 9 PC BOARD AND PARTS LIST

9.1 MAIN AMP PCB



# A-X35mkII

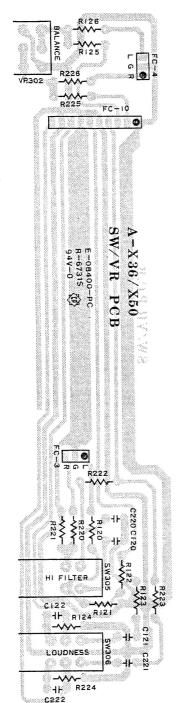
REF. NO.	PARTS NO.	DESCRIPTION
IC301, IC304	A-IC-001-00	IC, LA 6458DS
IC302	A-IC-011-00	IC, LC7815
IC303	A-IC-002-00	IC, LC4066
Q101, Q201, Q301	A-TR-008-00	Transistor, 2SA935
Q303	A-TR-011-00	Transistor, 2SC2061
Q308	A-TR-009-00	Transistor, 2SD1043
Q309	A-TR-010-00	Transistor, 2SB1033
Q310	A-TR-008-00	TRANSISTOR 2SA935
Q501, Q601	A-TR-003-00	Transistor, 2SD734/2SC2120
Q301	A-TR-006-00	Transistor, 2SC536/2SC945
Q702	A-TR-005-00	
D101, D201		Transistor, 2SA608/2SA733
D305	A-DO-005-00	Diode, IN4148
	A-DO-013-00	Diode, IN4002
D306,D307	A-DO-005-00	Diode, IN4148
D315, D316, D317	A-DO-013-00	Diode, IN4002
D318	A-DO-006-00	Diode, IN60
D319, D320, D321, D322	A-DO-012-00	Diode, IN5402
D325	A-DO-005-00	Diode, IN4148
ZD301, ZD302	A-DO-002-00	Zener Diode 12V
ZD701, ZD702	A-DO-001-00	Zener Diode 6.2V
C101, C201	C-CM-030-10	Ceramic Capacitor 270P
C102, C202	C-EC-005-60	Elec Capacitor 1µ/50V
C103, C203	C-CM-025-10	Ceramic Capacitor 100P
C104, C204	C-CM-028-10	Ceramic Capacitor 180P
C105, C205	C-EC-009-40	Elec. Capacitor 10µ/25V
C106, C206	C-ML-012-10	Mylar, 0.0082μ/50V
C107, C207	C-ML-005-10	Mylar, 0.0022μ/50V
C108, C208	C-EC-010-40	Elec. Capacitor 22µ/25V
C109, C209	C-CM-030-10	Ceramic Capacitor 270P
C110, C210	C-EC-008-40	Elec. Capacitor 4.7µ/25V
C111, C211	C-CM-030-10	Ceramic Capacitor 240P
C112, C212	C-EC-008-40	Elec. Capacitor 4.7µ/25V
C115, C215	C-CM-030-10	Ceramic Capacitor 270P
C116, C216	C-EC-008-40	
C123, C223	C-CM-029-10	Elec. Capacitor 4.7µ/125V
C124, C224	C-CM-013-10	Ceramic Capacitor 220P
C125, C225	C-ML-016-10	Ceramic Capacitor 10P/50V
C126, C226	C-ML-010-10	Mylar, 0.018µ/50V
C127, C227		Mylar, 0.082µ/50V
	C-ML-004-10	Mylar, 0.0018μ/50V
C128, C228	C-ML-013-10	Mylar, 0.01μ/50V
C131, C231	C-CM-033-10	Ceramic Capacitor 470P
C132, C232	C-EC-008-40	Elec. Capacitor 4.7μ/25V
C133, C233	C-CM-025-10	Ceramic Capacitor 100
C134, C234	C-EC-013-40	Elec. Capacitor 100µ/25V
	C-CM-025-10	Ceramic Capacitor 100P
C136, C236	C-EC-012-60	Elec. Capacitor 47µ/50V
C137, C237	C-ML-025-10	Mylar, 0.1μ/50V
C138, C238	C-ML-018-10	Mylar, 0.027µ/50V
C301, C302	C-EC-016-30	Elec. Capacitor 470µ/16V
2303	C-CM-049-10	Elec. Capacitor 0.01 µ/50V
2304	C-EC-006-60	Elec. Capacitor 2.2µ/50V
C306, C307	C-CM-049-10	Elec. Capacitor 0.01 #50V
308	C-EC-009-49	Elec. Capacitor 10µ/25V
309	C-EC-008-40	Elec. Capacitor 4.7µ/25V
2310	C-EC-018-30	Elec. Capacitor 4.7#/25V
315	C-ML-025-10	Mylar, 0.1µ/50V
316, C317, C318	C-EC-009-60	
2319	C-EC-013-60	Elec. Capacitor 100//50V
320	C-EC-005-60	Elec. Capacitor 100µ/50V
322	C-CM-049-40	Elec. Capacitor 1µ/50V
323	C-EC-009-60	Ceramic Capacitor 0.01 µ/500V
326, C329		Elec Capacitor 10μ/50V
	C-EC-013-30	Elec. Capacitor 100µ/16V
328, C329	C-EC-020-60	Elec. Capacitor 470µ/50V
330 C331	C-CM-049-40	Ceramic Capacitor 0.01µ/500V
333, C334	C-EC-012-60	Elec. Capacitor 47μ/50V
340	C-EC-009-40	Elec. Capacitor 10μ/25V
501, C601	C-EC-008-40	Elec. Capacitor 4.7µ/25V
S301, FS302	E-FU-011-00	FUSE, 3.5A GMA
J-301	E-JK-009-00	RCA Jack, PJ-206NP
J-302	E-JK-007-00	RCA Jack, PJ-204NP
302	E-JK-011-00	Speaker Jack PJ-208AS
P-1 ~ JP-5	F-JP-002-00	Jumper Wire, 6m/m
01 -L103, L201 -L203	F-JP-002-00	Jumper Wire, 6m/m
05, £206	F-JP-002-00	Jumper Wire, 6m/m
1 - VV6	F-JP-003-00	Jumper Wire, 6m/m Jumper Wire, 10m/m
7	F-JP-004-00	
/8 ~ W13		Jumper Wire, 12m/m
	F-JP-003-00	Jumper Wire, 10m/m Jumper Wire, 15m/m
14	F-JP-005-00	

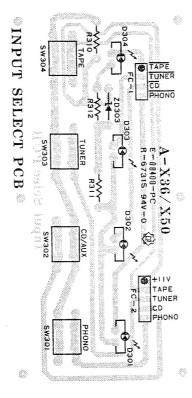
W16         FJP-004-00         Jumper Wire. 12m/m           W17 − W21         FJP-004-00         Jumper Wire. 12m/m           W22, W23, W24         FJP-004-00         Jumper Wire. 12m/m           W25, W26         FJP-004-00         Jumper Wire. 10m/m           W27         FJP-004-00         Jumper Wire. 10m/m           W38 − W35         FJP-005-00         Jumper Wire. 10m/m           W36 − KJP-005-00         Jumper Wire. 10m/m           W37 − W40         FJP-003-00         Jumper Wire. 10m/m           W41 − KJP-003-00         Jumper Wire. 10m/m           W701         FJP-003-00         Jumper Wire. 10m/m           W701         FJP-003-00         Jumper Wire. 10m/m           W701         FJP-003-00         Jumper Wire. 10m/m           W701         FJP-004-00         Connector Base SP           CN-2         FCN-004-00         Connector Base SP           CN-2         FCN-004-00         Connector Base SP           CN-3         FCN-004-20         Carbon Resistor 14W 47K           B102, R020         R-CB-062-20         Carbon Resistor 14W 47K           B103, R030         R-CB-068-20         Carbon Resistor 14W 47K           B106, R020         R-CB-068-20         Carbon Resistor 14W 47K	REF. NO.	PARTS NO.	DESCRIPTION
WIT			
W27. W23. W24 FJR-004-00 W25. W26 FJR-003-00 W27 FJR-004-00 W27 FJR-004-00 W28 - W35 FJR-003-00 Jumper Wire, 12mim W28 - W35 FJR-003-00 Jumper Wire, 12mim W37 - W40 FJR-004-00 W37 - W40 FJR-004-00 W37 - W40 FJR-004-00 W41, W42 FJR-004-00 Connector Base 4P CON-2 PCN-004-00 CON-3 PCN-004-00 CON-3 PCN-004-00 CON-3 PCN-004-00 CON-610-68-68-67 CON-3 PCN-004-00 CON-610-68-68-67 CON-3 PCN-004-00 CON-610-68-68-67 Connector Base 5P CON-3 PCN-004-00 CON-610-68-68-67 Connector Base 1P CON-2 RIO1, R203 R-CB-042-20 Carbon Resistor 14W 27 X RI01, R203 R-CB-042-20 Carbon Resistor 14W 27 X RI01, R203 R-CB-042-20 Carbon Resistor 14W 33X RI01, R203 R-CB-042-20 Carbon Resistor 14W 33X RI01, R203 R-CB-042-20 Carbon Resistor 14W X1X RI01, R201 R-CB-042-20 Carbon Resistor 14W X1X RI			
W22 W23 W26			
W25   W26   FJP-003-00	1		
W28         FuP-003-00         Jumper Wire, 15m/m           W37 – W40         FuP-003-00         Jumper Wire, 15m/m           W37 – W40         FuP-003-00         Jumper Wire, 15m/m           W701         FuP-003-00         Jumper Wire, 10m/m           W701         FuP-003-00         Connector Base 4P           CN-1         P-CN-003-00         Connector Base 4P           CN-2         P-CN-004-00         Connector Base 4P           R0-03-20         R-CB-029-20         Cathon Resistor IVAW 27X           R102, R202         R-CB-032-20         Cathon Resistor IVAW 27X           R103, R203         R-CB-032-20         Cathon Resistor IVAW 27X           R104, R203         R-CB-032-20         Cathon Resistor IVAW 47K           R106, R206         R-CB-038-20         Cathon Resistor IVAW 47K           R106, R206         R-CB-055-20         Cathon Resistor IVAW 47K           R108, R209         R-CB-042-20         Cathon Resistor IVAW 47K           R108, R209         R-CB-042-20         Cathon Resistor IVAW 47K           R108, R209         R-CB-042-20         Cathon Resistor IVAW 27K           R111, R211         R-CB-042-20         Cathon Resistor IVAW 27K           R112, R212         R-CB-038-20         Cathon Resistor IVAW 27K      <	W25, W26	F-JP-003-00	
W37	W27	F-JP-004-00	Jumper Wire, 12m/m
W31   W42   F.JP-003-00	W28 ~ W35	F-JP-003-00	Jumper Wire, 10m/m
W41 W42 F.JP-004-00 Jumper Wine, 12m/m W701 F.JP-003-00 Jumper Wine, 10m/m CN-1 P.CN-003-00 Connector Base 4P CN-004-00 Connector Base 4P CN-004-00 Connector Base 5P CN-004-00 Cn-004-00 Connector Base 5P CN-004-00 Cn	W36	F-JP-005-00	Jumper Wire, 15m/m
W701			Jumper Wire, 10m/m
CN-1			
CN-2 PCN-004-00 Connector Base 5P CN-3 PCN-001-00 Connector Base 5P CN-3 PCN-001-00 Connector Base 2P RI01, R201 R-C6-042-20 Connector Base 2P RI02, R202 R-C6-057-20 Carbon Resistor 1/4W 2.7K RI03, R203 R-C6-029-20 Carbon Resistor 1/4W 1.2K RI04, R204 R-C8-038-20 Carbon Resistor 1/4W 1.2K RI05, R206 R-C8-058-20 Carbon Resistor 1/4W 1.2K RI05, R206 R-C8-057-20 Carbon Resistor 1/4W 1.2K RI06, R206 R-C8-057-20 Carbon Resistor 1/4W 1.2K RI08, R208 R-C8-037-20 Carbon Resistor 1/4W 1.2K RI09, R209 R-C8-037-20 Carbon Resistor 1/4W 1.2K RI09, R209 R-C8-042-20 Carbon Resistor 1/4W 2.7K RI01, R210 R-C8-058-20 Carbon Resistor 1/4W 2.7K RI11, R211 R-C8-058-20 Carbon Resistor 1/4W 2.7K RI11, R211 R-C8-058-20 Carbon Resistor 1/4W 2.7K RI11, R212 R-C8-058-20 Carbon Resistor 1/4W 2.7K RI11, R212 R-C8-058-20 Carbon Resistor 1/4W 2.7K RI11, R217 R-C8-042-20 Carbon Resistor 1/4W 2.7K RI11, R217 R-C8-042-20 Carbon Resistor 1/4W 2.7K RI11, R217 R-C8-042-20 Carbon Resistor 1/4W 2.7K RI12, R227 R-C8-042-20 Carbon Resistor 1/4W 2.7K RI12, R228 R-C8-043-20 Carbon Resistor 1/4W 2.7K RI13, R231 R-C8-042-20 Carbon Resistor 1/4W 2.7K RI13, R232 R-C8-033-20 Carbon Resistor 1/4W 2.7K RI13, R233 R-C8-042-20 Carbon Resistor 1/4W 2.7K RI13, R234 R-C8-033-20 Carbon Resistor 1/4W 1.8K RI13, R234 R-C8-033-20 Carbon Resistor 1/4W 1.8K RI13, R235 R-C8-033-20 Carbon Resistor 1/4W 1.8K RI13, R236 R-C8-032-20 Carbon Resistor 1/4W 1.8K RI13, R237 R-C8-052-20 Carbon Resistor 1/4W 1.8K RI13, R238 R-C8-033-20 Carbon Resistor 1/4W 1.8K RI13, R239 R-C8-041-30 Carbon Resistor 1/4W 1.8K RI13, R241 R-C8-049-20 Carbon Resistor 1/4W 1.8K RI13, R241 R-C8-049-20 Carbon Resistor 1/4W 1.8K RI13, R242 R-C8-052-20 Carbon Resistor 1/4W 1.8K RI13, R344 R-C8-049-20 Carbon Resistor 1/	l .		
CN-9  RON-901-00  RON-902-00  RON-902-00  RON-902-00  RON-903-20			
RIDI, R201   R-CB-042-20   Carbon Resistor 144W 2.7K   RIDI, R202   R-CB-057-20   Carbon Resistor 144W 2.7K   RIDI, R203   R-CB-029-20   Carbon Resistor 144W 12K   RIDI, R204   R-CB-038-20   Carbon Resistor 144W 12K   RIDI, R206   R-CB-0698-20   Carbon Resistor 144W 33K   RIDI, R206   R-CB-0698-20   Carbon Resistor 144W 37K   RIDI, R206   R-CB-037-20   Carbon Resistor 144W 47K   RIDI, R208   R-CB-037-20   Carbon Resistor 144W 47K   RIDI, R208   R-CB-037-20   Carbon Resistor 144W 15K   RIDI, R208   R-CB-037-20   Carbon Resistor 144W 15K   RIDI, R209   R-CB-042-20   Carbon Resistor 144W 56K   RIDI, R210   R-CB-058-20   Carbon Resistor 144W 2.7K   RIDI, R211   R-CB-042-20   Carbon Resistor 144W 2.7K   RIDI, R212   R-CB-058-20   Carbon Resistor 144W 2.7K   RIDI, R212   R-CB-058-20   Carbon Resistor 144W 2.7K   RIDI, R211   R-CB-042-20   Carbon Resistor 144W 2.7K   RIDI, R216   R-CB-042-20   Carbon Resistor 144W 2.7K   RIDI, R217   R-CB-042-20   Carbon Resistor 144W 2.7K   RIDI, R217   R-CB-042-20   Carbon Resistor 144W 2.7K   RIDI, R217   R-CB-042-20   Carbon Resistor 144W 2.7K   RIDI, R218   R-CB-042-20   Carbon Resistor 144W 2.7K   RIDI, R219   R-CB-042-20   Carbon Resistor 144W 2.7K   RIDI, R219   R-CB-042-20   Carbon Resistor 144W 2.7K   RIDI, R218   R-CB-042-20   Carbon Resistor 144W 3.8K   RIDI, R228   R-CB-042-20   Carbon Resistor 144W 3.8K   RIDI, R228   R-C	1		
R102, R202   R-CB-057-20   Carbon Resistor 1/4W 47K   R103, R203   R-CB-039-20   Carbon Resistor 1/4W 12K   R104, R204   R-CB-038-20   Carbon Resistor 1/4W 12K   R105, R205   R-CB-055-20   Carbon Resistor 1/4W 37K   R105, R206   R-CB-055-20   Carbon Resistor 1/4W 37K   R107, R207   R-CB-057-20   Carbon Resistor 1/4W 37K   R108, R208   R-CB-037-20   Carbon Resistor 1/4W 17K   R108, R208   R-CB-037-20   Carbon Resistor 1/4W 17K   R108, R208   R-CB-042-20   Carbon Resistor 1/4W 17K   R108, R208   R-CB-042-20   Carbon Resistor 1/4W 27K   R111, R211   R-CB-042-20   Carbon Resistor 1/4W 27K   R112, R212   R-CB-058-20   Carbon Resistor 1/4W 27K   R112, R215   R-CB-068-20   Carbon Resistor 1/4W 27K   R112, R216   R-CB-068-20   Carbon Resistor 1/4W 27K   R112, R217   R-CB-041-20   Carbon Resistor 1/4W 27K   R112, R217   R-CB-041-20   Carbon Resistor 1/4W 27K   R128, R228   R-CB-033-20   Carbon Resistor 1/4W 27K   R128, R228   R-CB-033-20   Carbon Resistor 1/4W 37K   R128, R228   R-CB-033-20   Carbon Resistor 1/4W 37K   R131, R231   R-CB-044-20   Carbon Resistor 1/4W 37K   R131, R231   R-CB-046-20   Carbon Resistor 1/4W 37K   R131, R231   R-CB-033-20   Carbon Resistor 1/4W 37K   R134, R234   R-CB-033-20   Carbon Resistor 1/4W 37K   R134, R234   R-CB-033-20   Carbon Resistor 1/4W 37K   R134, R234   R-CB-033-20   Carbon Resistor 1/4W 37K   R134, R235   R-CB-033-20   Carbon Resistor 1/4W 37K   R134, R236   R-CB-033-20   Carbon Resistor 1/4W 37K   R134, R234   R-CB-033-20   Carbon Resistor 1/4W 37K   R134, R236   R-CB-033-20   Carbon Resistor 1/4W 37K   R134, R236   R-CB-033-20   Carbon Resistor 1/4W 37K   R134, R244   R-CB-033-20   Carbon Resistor 1/4W 37K   R134, R244   R-CB-043-20   Carbon Resistor 1/4W 37K   R134, R244   R-CB-043-20   Carbon Resistor 1/4W 37K   R134, R244   R-CB-033-20   Carbon Resistor 1/4			
R103, R203 R104, R204 R105, R206 R105, R206 R106, R206 R106, R206 R107, R207 R108, R208 R108, R208 R109, R209			
RIO4, R204         R.CB-038-20         Carbon Resistor 1/4W 1 2x           RIO5, R205         R.CB-069-20         Carbon Resistor 1/4W 470K           RIO6, R206         R.CB-065-20         Carbon Resistor 1/4W 47K           RIO8, R208         R.CB-037-20         Carbon Resistor 1/4W 17K           RIO8, R209         R.CB-037-20         Carbon Resistor 1/4W 27K           RIO8, R209         R.CB-042-20         Carbon Resistor 1/4W 27K           RIO, R210         R.CB-068-20         Carbon Resistor 1/4W 27K           RI11, R211         R.CB-068-20         Carbon Resistor 1/4W 27K           R112, R212         R.CB-088-20         Carbon Resistor 1/4W 27K           R116, R216         R.CB-088-20         Carbon Resistor 1/4W 56K           R117, R217         R.CB-088-20         Carbon Resistor 1/4W 56K           R117, R217         R.CB-042-20         Carbon Resistor 1/4W 56K           R117, R217         R.CB-042-20         Carbon Resistor 1/4W 56K           R117, R227         R.CB-042-20         Carbon Resistor 1/4W 56K           R112, R228         R.CB-042-20         Carbon Resistor 1/4W 3.3K           R129, R229         R.CB-042-20         Carbon Resistor 1/4W 3.3K           R130, R230         R.CB-044-20         Carbon Resistor 1/4W 3.3K           R131, R231 <td></td> <td></td> <td></td>			
RIOS, R206	R104, R204	R-CB-038-20	
R107, R207 R108, R208 R-CB-037-20 R108, R209 R-CB-037-20 R108, R209 R-CB-037-20 Carbon Resistor 114W 17K Carbon Resistor 114W 2.7K R101, R210 R-CB-068-20 R111, R211 R-CB-042-20 Carbon Resistor 114W 2.7K R111, R211 R-CB-042-20 Carbon Resistor 114W 2.7K R112, R212 R-CB-058-20 Carbon Resistor 114W 2.7K R115, R215 R-CB-042-20 Carbon Resistor 114W 2.7K R116, R216 R-CB-068-20 Carbon Resistor 114W 2.7K R116, R216 R-CB-048-20 Carbon Resistor 114W 2.7K R117, R217 R-CB-041-20 Carbon Resistor 114W 2.7K R118, R228 R-CB-043-20 Carbon Resistor 114W 2.7K R128, R228 R-CB-043-20 Carbon Resistor 114W 2.7K R128, R228 R-CB-043-20 Carbon Resistor 114W 3.7K R128, R229 R-CB-044-20 Carbon Resistor 114W 3.7K R131, R231 R-CB-044-20 Carbon Resistor 114W 3.7K R131, R231 R-CB-046-20 Carbon Resistor 114W 3.7K R131, R231 R-CB-046-20 Carbon Resistor 114W 1.7K R134, R234 R-CB-037-20 Carbon Resistor 114W 1.7K R134, R235 R-CB-052-20 Carbon Resistor 114W 18K R134, R235 R-CB-052-20 Carbon Resistor 114W 18K R138, R236 R-CB-035-20 Carbon Resistor 114W 18K R138, R238 R-CB-041-30 Carbon Resistor 114W 18K R138, R238 R-CB-041-30 Carbon Resistor 114W 18K R138, R239 R-CB-041-30 Carbon Resistor 114W 2.7K R144 R141 R241 R242 R-CB-052-20 Carbon Resistor 114W 2.7K R144, R244 R-CB-056-20 Carbon Resistor 114W 2.7K R144, R244 R-CB-056-20 Carbon Resistor 114W 2.7K R144, R244 R-CB-056-20 Carbon Resistor 114W 2.7K R146, R246 R-CB-040-30 Carbon Resistor 114W 2.7K R147 R148, R244 R-CB-040-30 Carbon Resistor 114W 3.9K R144, R244 R-CB-065-20 Carbon Resistor 114W 3.9K R144, R244 R-CB-065-20 Carbon Resistor 114W 3.9K R144, R244 R-CB-065-20 Carbon Resistor 114W 3.9K R146, R246 R-CB-040-30 Carbon Resistor 114W 3.9K R147 R148-84 R-CB-045-20 Carbon Resistor 114W 3.9K R148-84 R148-84 R14	R105, R205	R-CB-069-20	Carbon Resistor 1/4W 470K
R108, R208	R106, R206	R-CB-055-20	Carbon Resistor 1/4W 33K
R109, R209 R-CB-042-20 Carbon Resistor 1/4W 2.7K R110, R210 R-CB-058-20 Carbon Resistor 1/4W 2.7K R111, R211 R-CB-042-20 Carbon Resistor 1/4W 2.7K R115, R215 R-CB-042-20 Carbon Resistor 1/4W 2.7K R116, R216 R-CB-058-20 Carbon Resistor 1/4W 2.7K R116, R216 R-CB-048-20 Carbon Resistor 1/4W 2.7K R117, R217 R-CB-041-20 Carbon Resistor 1/4W 2.7K R128, R228 R-CB-043-20 Carbon Resistor 1/4W 2.7K R128, R228 R-CB-043-20 Carbon Resistor 1/4W 2.7K R129, R229 R-CB-048-20 Carbon Resistor 1/4W 3.7K R139, R230 R-CB-046-20 Carbon Resistor 1/4W 3.7K R131, R231 R-CB-046-20 Carbon Resistor 1/4W 3.7K R131, R231 R-CB-046-20 Carbon Resistor 1/4W 3.7K R131, R231 R-CB-046-20 Carbon Resistor 1/4W 1.2K R134, R234 R-CB-038-20 Carbon Resistor 1/4W 1.2K R134, R235 R-CB-038-20 Carbon Resistor 1/4W 1.2K R134, R234 R-CB-039-20 Carbon Resistor 1/4W 1.2K R134, R235 R-CB-035-20 Carbon Resistor 1/4W 1.2K R136, R236 R-CB-035-20 Carbon Resistor 1/4W 1.2K R137, R237 R-CB-035-20 Carbon Resistor 1/4W 1.8K R138, R238 R-CB-041-30 Carbon Resistor 1/4W 1.8K R139, R239 R-CB-041-30 Carbon Resistor 1/4W 1.8K R141, R241 R240 R-MR-001-40 Metal Resistor, 1/4W 2.2 C R140, R240 R-MR-001-40 Metal Resistor, 1/4W 2.2 C R141, R241 R-CB-049-20 Carbon Resistor 1/4W 3.9K R144, R244 R-CB-056-20 Carbon Resistor 1/4W 3.8K R144, R244 R-CB-056-20 Carbon Resistor 1/4W 3.9K R146, R246 R-CB-040-30 Carbon Resistor 1/4W 3.9K R147 R148, R344 R-CB-049-20 Carbon Resistor 1/4W 1.0K Carbon Resistor 1/4W 1.0K R147 R344 R-CB-049-20 Carbon Resistor 1/4W 1.0K		R-CB-057-20	Carbon Resistor 1/4W 47K
R110, R210 R120 R121 R121 R121 R121 R121 R121	·		
R111, R211 R-CB-042-20 Carbon Resistor 114W 2.7K R115, R215 R-CB-058-20 Carbon Resistor 114W 56K R116, R216 R-CB-058-20 Carbon Resistor 114W 2.7K R116, R216 R-CB-058-20 Carbon Resistor 114W 2.7K R117, R217 R-CB-041-20 Carbon Resistor 114W 2.7K R127, R227 R-CB-042-20 Carbon Resistor 114W 2.7K R128, R228 R-CB-043-20 Carbon Resistor 114W 3.3K R129, R229 R-CB-043-20 Carbon Resistor 114W 3.3K R129, R229 R-CB-044-20 Carbon Resistor 114W 3.8K R130, R230 R-CB-046-20 Carbon Resistor 114W 3.8K R131, R231 R-CB-046-20 Carbon Resistor 114W 1.2K R134, R234 R-CB-039-20 Carbon Resistor 114W 1.2K R134, R235 R-CB-035-20 Carbon Resistor 114W 18K R134, R235 R-CB-035-20 Carbon Resistor 114W 18K R137, R237 R-CB-035-20 Carbon Resistor 114W 18K R138, R238 R-CB-041-30 Carbon Resistor 114W 18K R139, R239 R-CB-041-30 Carbon Resistor 114W 18K R131, R237 R-CB-045-20 Carbon Resistor 114W 18K R137, R237 R-CB-045-30 Carbon Resistor 114W 18K R141, R241 R38, R388 R-CB-041-30 Carbon Resistor 114W 2.2K R148, R242 R-CB-029-20 Carbon Resistor 114W 2.2K R148, R244 R-CB-056-20 Carbon Resistor 114W 2.2C Carbon Resistor 114W 3.8K R146, R246 R-CB-040-30 R-CB-045-20 Carbon Resistor 114W 3.8K R146, R246 R-CB-040-30 R-CB-045-20 Carbon Resistor 114W 3.8K R146, R246 R-CB-040-30 R-CB-045-20 Carbon Resistor 114W 10C Carbon Resistor 114W 1			
R112, R212 R15, R215 R16, R216 R16, R216 R16, R216 R17, R217 R17 R17 R17 R17 R17 R17 R17 R17 R17 R			
R115, R215			
R116, R216 R17, R217 R17, R217 R17, R217 R17, R217 R17, R217 R18, R228 R128, R228 R128, R228 R128, R228 R129, R229 R129, R229 R129, R229 R129, R229 R129, R229 R130, R230 R131, R231 R121 R121, R231 R1231 R128, R232 R129, R239 R134, R234 R129, R327 R134, R335 R129, R327 R129, R328 R139, R339 R129, R129, R341 R139, R339 R129, R129, R341 R139, R339 R129, R129, R341 R140, R240 R141, R241 R141 R141 R141 R141 R141 R141 R141			
R117, R217			
R127, R227			
R128, R228   R-CB-043-20   Carbon Resistor 1/4W 3.3K   R128, R229   R-CB-054-20   Carbon Resistor 1/4W 27K   R103, R230   R-CB-044-20   Carbon Resistor 1/4W 3.9K   R131, R231   R-CB-046-20   Carbon Resistor 1/4W 1.5K   R132, R232   R-CB-038-20   Carbon Resistor 1/4W 1.2K   R134, R234   R-CB-037-20   Carbon Resistor 1/4W 1.8K   R134, R235   R-CB-035-20   Carbon Resistor 1/4W 18K   R136, R236   R-CB-035-20   Carbon Resistor 1/4W 18K   R137, R237   R-CB-035-20   Carbon Resistor 1/4W 18K   R138, R238   R-CB-041-30   Carbon Resistor 1/4W 18K   R139, R239   R-CB-041-30   Carbon Resistor 1/4W 2.2K   R140, R240   R-MR-001-40   Metal Resistor, IW 4.7 OHM   R141, R241   R-XR-009-00   Carbon Resistor 1/2W 2.2K   R140, R240   R-MR-001-40   Carbon Resistor 1/4W 220 OHM   R142, R242   R-CB-029-20   Carbon Resistor 1/4W 220 OHM   R144, R244   R-CB-056-20   Carbon Resistor 1/4W 3.9K   R144, R244   R-CB-056-20   Carbon Resistor 1/4W 220 OHM   R303, R304   R-CB-065-20   Carbon Resistor 1/4W 220 OHM   R304, R304   R-CB-065-20   Carbon Resistor 1/4W 220 OHM   R305, R306   R-CB-067-20   Carbon Resistor 1/4W 47K   R307, R309   R-CB-067-20   Carbon Resistor 1/4W 47K   R314   R-CB-049-20   Carbon Resistor 1/4W 47K   R316   R319   F-JP-004-00   Jumper Wire, 12m/m   R324   R-CB-033-20   Carbon Resistor 1/4W 10K   R326   R-CB-066-20   Carbon Resistor 1/4W 10K   R327   R-CB-037-20   Carbon Resistor 1/4W 10K   R328   R-CB-037-20   Carbon Resistor 1/4W 10K   R344   R-MR-003-40   Metal Resistor, 1W 20 OHM   R344   R-MR-003-40   Metal Resistor, 1W 20 OHM   R344   R-MR-003-40   Metal Resistor, 1W 20 OHM   R345   R-CB-037-20   Carbon Resistor 1/4W 15K   R346   R-CB-037-20   Carbon Resistor 1/4W 15K   R346   R-CB-037-20   Carbon Re			
R103, R230 R-C8-044-20 Carbon Resistor 1/4W 3 9K R131, R231 R-C8-046-20 Carbon Resistor 1/4W 1.2K R134, R232 R-C8-038-20 Carbon Resistor 1/4W 1.2K R134, R234 R-C8-037-20 Carbon Resistor 1/4W 1.2K R134, R235 R-C8-065-20 Carbon Resistor 1/4W 18K R136, R236 R-C8-065-20 Carbon Resistor 1/4W 18K R137, R237 R-C8-065-20 Carbon Resistor 1/4W 18K R138, R238 R-C8-041-30 Carbon Resistor 1/4W 18K R138, R238 R-C8-041-30 Carbon Resistor 1/4W 18K R138, R238 R-C8-041-30 Carbon Resistor 1/2W 2.2K R139, R239 R-C8-062-20 Carbon Resistor 1/2W 2.2K R139, R239 R-C8-061-30 Carbon Resistor 1/2W 2.2K R144, R244 R-C8-065-20 Carbon Resistor 1/2W 2.2 M R144, R244 R-C8-065-20 Carbon Resistor 1/4W 220 OHM R141, R244 R-C8-065-20 Carbon Resistor 1/4W 220 OHM R301, R302 R-C8-033-20 Carbon Resistor 1/4W 20 OHM R301, R302 R-C8-065-20 Carbon Resistor 1/4W 470 OHM R303, R304 R-C8-065-20 Carbon Resistor 1/4W 470 OHM R305, R306 R-C8-065-20 Carbon Resistor 1/4W 470 R307, R309 R-C8-065-20 Carbon Resistor 1/4W 470 R313, R314 R-C8-049-20 Carbon Resistor 1/4W 470 R316 R318 R-C8-049-20 Carbon Resistor 1/4W 470 R316 R319 F-JP-004-00 Jumper Wire, 12m/m R321 R-C8-037-20 Carbon Resistor 1/4W 100 R322 R323 R-C8-037-20 Carbon Resistor 1/4W 100 R324 R-C8-065-20 Carbon Resistor 1/4W 100 R326 R-C8-037-20 Carbon Resistor 1/4W 100 R327 R-C8-037-20 Carbon Resistor 1/4W 100 R328 R-C8-037-20 Carbon Resistor 1/4W 100 R329 R-MR-005-40 Metal Resistor, 1W, 16 R324 R-C8-038-20 Carbon Resistor 1/4W 100 R326 R-C8-066-20 Carbon Resistor 1/4W 100 R327 R-C8-063-20 Carbon Resistor 1/4W 100 R328 R-C8-037-20 Carbon Resistor 1/4W 100 R334 R-C8-049-20 Carbon Resistor 1/4W 100 R344 R-C8-066-20 Carbon Resistor 1/4W 100 R345 R-C8-063-20 Carbon Resistor 1/4W 100 R346 R-C8-065-20 Carbon Resistor 1/4W 100 R347 R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-	R128, R228	R-CB-043-20	
R131, R231 R-CB-046-20 Carbon Resistor 1/4W 1.2K R134, R234 R-CB-037-20 Carbon Resistor 1/4W 1.2K R134, R235 R-CB-035-20 Carbon Resistor 1/4W 18K R134, R235 R-CB-035-20 Carbon Resistor 1/4W 18K R136, R236 R-CB-035-20 Carbon Resistor 1/4W 18K R137, R237 R-CB-052-20 Carbon Resistor 1/4W 18K R138, R238 R-CB-041-30 Carbon Resistor 1/4W 18K R138, R238 R-CB-041-30 Carbon Resistor 1/2W 2.2K R140, R240 R-MR-001-40 Metal Resistor, 1/2W 2.2K R141, R241 R-XR-009-00 Cement Resistor, 3W 0.22 OHM R141, R241 R-XR-009-00 Cement Resistor, 3W 0.22 OHM R143, R242 R-CB-029-20 Carbon Resistor 1/4W 220 OHM R143, R243 R-CB-040-20 Carbon Resistor 1/4W 220 OHM R144, R244 R-CB-066-20 Carbon Resistor 1/4W 220 OHM R301, R302 R-CB-033-20 Carbon Resistor 1/4W 20 OHM R301, R302 R-CB-033-20 Carbon Resistor 1/4W 470 OHM R301, R302 R-CB-065-20 Carbon Resistor 1/4W 470 OHM R303, R304 R-CB-065-20 Carbon Resistor 1/4W 470 OHM R305, R306 R-CB-065-20 Carbon Resistor 1/4W 47K R307, R309 R-CB-067-20 Carbon Resistor 1/4W 10K R316 R-R319 R-CB-049-20 Carbon Resistor 1/4W 10K R316 R-R319 R-CB-049-20 Carbon Resistor 1/4W 10K R316 R-R319 R-CB-068-20 Carbon Resistor 1/4W 10K R316 R-R319 R-CB-068-20 Carbon Resistor 1/4W 10K R322 R323 R-CB-037-20 Carbon Resistor 1/4W 10C R326 R-CB-068-20 Carbon Resistor 1/4W 10C R327 R-CB-068-20 Carbon Resistor 1/4W 10C R328 R-CB-068-20 Carbon Resistor 1/4W 10C R329 R-MR-005-40 Metal Resistor 1/4W 10C R344 R-CB-068-20 Carbon Resistor 1/4W 10C R344 R-CB-068-20 Carbon Resistor 1/4W 10C R349 R-CB-068-20 Carbon Resistor 1/4W 10C R340 R341 R-CB-068-20 Carbon Resistor 1/4W 10C Carbon Resistor 1/4W 10C R341 R-CB-068-20 Carbon Resistor 1/4W 10C Carbon Resistor 1/4W 10C R341 R-CB-068-20 Carbon Resistor 1/4W 10C Carbon Resistor 1/4W 10C Carbon Resistor 1/4W 10C R341 R-CB-068-20 Carbon Resistor 1/4W 10C Carbon Resistor 1/4W 10C Carbon Resistor 1/4W 10C R341 R-CB-068-20 Carbon Resistor 1/4W 10C Carbon Resistor 1/4W	R129, R229	R-CB-054-20	Carbon Resistor 1/4W 27K
R132, R232 R-CB-038-20 Carbon Resistor 1/4W 12K R134, R235 R-CB-052-20 Carbon Resistor 1/4W 18K R136, R236 R-CB-052-20 Carbon Resistor 1/4W 18K R136, R236 R-CB-052-20 Carbon Resistor 1/4W 18K Carbon Resistor 1/4W 18K Carbon Resistor 1/4W 18K R137, R237 R-CB-052-20 Carbon Resistor 1/4W 18K Carbon Resistor 1/2W 2.2K R138, R238 R-CB-041-30 Carbon Resistor 1/2W 2.2K R138, R239 R-CB-041-30 Carbon Resistor 1/2W 2.2K R140, R240 R-MR-001-40 Metal Resistor, 1W 4.7 OHM R141, R241 R-RXH-009-00 Cement Resistor, 3W 0.22 OHM R142, R242 R-CB-029-20 Carbon Resistor, 1/4W 1.8K R144, R244 R-CB-056-20 Carbon Resistor, 1/4W 1.8K R144, R244 R-CB-056-20 Carbon Resistor 1/4W 39K R146, R246 R-CB-040-20 Carbon Resistor 1/4W 18W R301, R302 R-CB-033-20 Carbon Resistor 1/4W 220 OHM R303, R304 R-CB-065-20 Carbon Resistor 1/4W 220 OHM R303, R304 R-CB-065-20 Carbon Resistor 1/4W 20 CARbon Resistor 1/4W 10 CARbon	R103, R230	R-CB-044-20	Carbon Resistor 1/4W 3.9K
R134, R234 R134, R235 R136, R236 R136, R236 R137, R237 R138, R238 R1237 R138, R238 R1238 R1238 R1239 R1239 R1240 R139, R239 R139, R239 R140, R240 R141, R241 R141, R241 R1421 R1424 R144 R14			Carbon Resistor 1/4W 5.6K
R134, R235 R136, R236 R136, R236 R-CB-052-20 Carbon Resistor 1/4W 18K R137, R237 R-CB-052-20 Carbon Resistor 1/4W 18K R138, R238 R-CB-041-30 Carbon Resistor 1/2W 2.2K R139, R239 R-CB-041-30 Carbon Resistor 1/2W 2.2K R140, R240 R-MR-001-40 R141, R241 R-XR-009-00 Cement Resistor, 1W 4.7 OHM R141, R241 R-XR-009-00 Carbon Resistor, 1W 4.7 OHM R141, R242 R-CB-029-20 Carbon Resistor 1/4W 220 OHM R142, R242 R-CB-039-20 Carbon Resistor 1/4W 220 OHM R143, R243 R-CB-040-20 Carbon Resistor 1/4W 220 OHM R301, R302 R-CB-033-20 Carbon Resistor 1/4W 220 OHM R301, R302 R-CB-033-20 Carbon Resistor 1/4W 220 OHM R301, R302 R-CB-033-20 Carbon Resistor 1/4W 470 OHM R301, R302 R-CB-056-20 Carbon Resistor 1/4W 470 OHM R303, R304 R-CB-056-20 Carbon Resistor 1/4W 47K R307, R309 R-CB-057-20 Carbon Resistor 1/4W 10K R313, R314 R-CB-049-20 Carbon Resistor 1/4W 10K R315 R-CB-073-20 Carbon Resistor 1/4W 10K R316 - R319 F-JP-004-00 Jumper Wire, 12m/m R321 R-CB-025-20 Carbon Resistor 1/4W 10 R322, R323 R-CB-037-20 Carbon Resistor 1/4W 10 R324 R-CB-025-20 Carbon Resistor 1/4W 10 R325 R-CB-037-20 Carbon Resistor 1/4W 10 R326 R-CB-066-20 Carbon Resistor 1/4W 10 R327 R-CB-068-20 Carbon Resistor 1/4W 10 R328 R-CB-066-20 Carbon Resistor 1/4W 10 R329 R-MR-005-40 Metal Resistor 1/4W 10K R330 R-CB-046-20 Carbon Resistor 1/4W 150K R330 R-CB-046-20 Carbon Resistor 1/4W 150K R330 R-CB-046-20 Carbon Resistor 1/4W 150K R344 R-CB-045-20 Carbon Resistor 1/4W 150K R349 R-CB-045-20 Carbon Resistor 1/4W 17 R344 R-CB-045-20 Carbon Resistor 1/4W 18 R340 R-CB-045-20 Carbon Resistor 1/4W 18 R341 R-CB-045-20 Carbon Resistor 1/4W 16 R341 R-CB-045-20 Carbon Resistor 1/4W 16 R343 R-CB-045-20 Carbon Resistor 1/4W 18 R344 R-MR-003-40 Metal Resistor 1/4W 18 R345 R-CB-045-20 Carbon Resistor 1/4W 18 R341 R-CB-045-20 Carbon Resistor 1/4W 18 R342 R-CB-045-20 Carbon Resistor 1/4W 18 R343 R-CB-045-20 Carbon Resistor 1/4W 18 R344 R-MR-003-40 Metal Resistor 1/4W 18 R345 R-CB-045-20 Carbon Resistor 1/4W 18 R346 R-CB-045-20 Carbon Resistor 1/4W 18 R351 R-CB-045-20 Carbon Resistor 1			
R136, R236 R137, R237 R-CB-052-20 Carbon Resistor 1/4W 18K R138, R238 R-CB-041-30 Carbon Resistor 1/2W 2.2K R139, R239 R-CB-041-30 Carbon Resistor 1/2W 2.2K R140, R240 R-MR-001-40 Metal Resistor, 1/4 7 OHM R141, R241 R-XR-009-00 Cement Resistor, 3/4 7 OHM R142, R242 R-CB-029-20 Carbon Resistor 1/4W 220 OHM R142, R242 R-CB-029-20 Carbon Resistor 1/4W 220 OHM R143, R243 R-CB-040-20 Carbon Resistor 1/4W 220 OHM R301, R302 R-CB-031-20 Carbon Resistor 1/4W 220 OHM R301, R302 R-CB-032-20 Carbon Resistor 1/4W 220 OHM R301, R302 R-CB-032-20 Carbon Resistor 1/4W 220 OHM R303, R304 R-CB-056-20 Carbon Resistor 1/4W 220 OHM R303, R304 R-CB-057-20 Carbon Resistor 1/4W 220 OHM R307, R309 R-CB-057-20 Carbon Resistor 1/4W 220 OHM R307, R309 R-CB-057-20 Carbon Resistor 1/4W 10K R315 R-CB-073-20 Carbon Resistor 1/4W 10K R316 R-CB-037-20 Carbon Resistor 1/4W 10K R316 R-CB-037-20 Carbon Resistor 1/4W 10K R316 R-CB-037-20 Carbon Resistor 1/4W 10K R322, R323 R-CB-037-20 Carbon Resistor 1/4W 10 R322, R323 R-CB-037-20 Carbon Resistor 1/4W 10 R324 R-CB-025-20 Carbon Resistor 1/4W 10 R325 R-CB-037-20 Carbon Resistor 1/4W 10 R326 R-CB-037-20 Carbon Resistor 1/4W 10 R327 R-CB-038-20 Carbon Resistor 1/4W 10 R328 R-CB-049-20 Carbon Resistor 1/4W 10 R329 R-MR-05-040 R329 R-MR-05-040 R329 R-MR-05-040 R418 Resistor 1/4W 39K R330 R-CB-046-20 Carbon Resistor 1/4W 39K R343 R-CB-045-20 Carbon Resistor 1/4W 10K R330 R-CB-046-20 Carbon Resistor 1/4W 10K R330 R-CB-046-20 Carbon Resistor 1/4W 10K R343 R-CB-045-20 Carbon Resistor 1/4W 10K R343 R-CB-045-20 Carbon Resistor 1/4W 10K R344 R-MR-003-40 Metal Resistor 1/4W 16K R345 R-CB-037-20 Carbon Resistor 1/4W 16K R346 R-CB-045-20 Carbon Resistor 1/4W 16K R347 R-MR-003-40 Carbon Resistor 1/4W 1K R348 R-CB-045-20 Carbon Resistor 1/4W 17K R344 R-MR-003-40 Carbon Resistor 1/4W 17K R344 R-MR-003-40 Carbon Resistor 1/4W 17K R345 R-CB-045-20 Carbon Resistor 1/4W 17K R346 R-CB-045-20 Carbon Resistor 1/4W 17K R347 R-MR-003-40 Carbon Resistor 1/4W 17K R348 R346 R-CB-045-20 Carbon Resistor 1/4W 17K R347 R-MR-003-40			
R137, R237 R138, R238 R-CB-041-30 Carbon Resistor 1/2W 2.2K R139, R239 R-CB-041-30 Carbon Resistor 1/2W 2.2K R139, R239 R-CB-041-30 Carbon Resistor 1/2W 2.2K R140, R240 R-MR-001-40 Metal Resistor, 1W 4.7 OHM R141, R241 R-XR-009-00 Cement Resistor, 3W 0.22 OHM R142, R242 R-CB-029-20 Carbon Resistor 1/4W 220 OHM R143, R243 R-CB-040-20 Carbon Resistor 1/4W 220 OHM R143, R244 R-CB-056-20 Carbon Resistor 1/4W 290 OHM R301, R302 R-CB-033-20 Carbon Resistor 1/4W 220 OHM R301, R302 R-CB-057-20 Carbon Resistor 1/4W 220 OHM R301, R302 R-CB-057-20 Carbon Resistor 1/4W 220 OHM R307, R309 R-CB-057-20 Carbon Resistor 1/4W 47K R307, R309 R-CB-057-20 Carbon Resistor 1/4W 47K R313, R314 R-CB-049-20 Carbon Resistor 1/4W 47K R315 R-CB-037-20 Carbon Resistor 1/4W 10K R316 R-R319 R-JP-004-00 Jumper Wire, 12m/m R322, R323 R-CB-037-20 Carbon Resistor 1/4W 100 OHM R324 R-CB-035-20 Carbon Resistor 1/4W 100 OHM R324 R-CB-037-20 Carbon Resistor 1/4W 100 OHM R325 R-CB-037-20 Carbon Resistor 1/4W 100 OHM R326 R-CB-037-20 Carbon Resistor 1/4W 100 OHM R327 R-CB-065-20 Carbon Resistor 1/4W 100 OHM R328 R-CB-037-20 Carbon Resistor 1/4W 100 OHM R329 R-CB-037-20 Carbon Resistor 1/4W 100 OHM R326 R-CB-037-20 Carbon Resistor 1/4W 100 OHM R327 R-CB-066-20 Carbon Resistor 1/4W 10K R328 R-CB-037-20 Carbon Resistor 1/4W 10K R339 R-CB-037-20 Carbon Resistor 1/4W 10K R341 R-CB-008-20 Carbon Resistor 1/4W 17K R342 R-CB-038-20 Carbon Resistor 1/4W 17K R343 R-CB-038-20 Carbon Resistor 1/4W 17K R344 R-MR-005-40 Metal Resistor 1/4W 150K R345 R-CB-037-20 Carbon Resistor 1/4W 150K R346 R-CB-037-20 Carbon Resistor 1/4W 150K R347 R-MR-003-40 Metal Resistor 1/4W 15 R348 R-CB-045-20 Carbon Resistor 1/4W 15 R349 R-CB-045-20 Carbon Resistor 1/4W 15 R341 R-CB-008-20 Metal Resistor 1/4W 15 R344 R-MR-003-40 Carbon Resistor 1/4W 15 R345 R-CB-037-20 Carbon Resistor 1/4W 15 R346 R-CB-045-20 Carbon Resistor 1/4W 15 R347 R-MR-003-40 Carbon Resistor 1/4W 15 R349 R-MR-003-40 Carbon Resistor 1/4W 15 R341 R-MR-003-40 Carbon Resistor 1/4W 15 R341 R-MR-003-40 Carbon Resistor 1/4W			
R138, R238   R-CB-041-30   Carbon Resistor 1/2W 2.2K   R139, R239   R-CB-041-30   Carbon Resistor 1/2W 2.2K   R140, R240   R-MR-001-40   Metal Resistor, 1W 4.7 OHM   R141, R241   R-XR-009-00   Carbon Resistor, 1/4W 2.20 OHM   R142, R242   R-CB-029-20   Carbon Resistor, 1/4W 2.20 OHM   R143, R243   R-CB-040-20   Carbon Resistor, 1/4W 39K   R144, R244   R-CB-056-20   Carbon Resistor 1/4W 39K   R146, R246   R-CB-040-30   Carbon Resistor 1/4W 220 OHM   R301, R302   R-CB-033-20   Carbon Resistor 1/4W 220 OHM   R303, R304   R-CB-065-20   Carbon Resistor 1/4W 220 CM   R305, R306   R-CB-057-20   Carbon Resistor 1/4W 47K   R307, R309   R-CB-057-20   Carbon Resistor 1/4W 47K   R313, R314   R-CB-049-20   Carbon Resistor 1/4W 10K   R316 ~ R319   F-JP-004-00   Jumper Wire, 12m/m   R321   R-CB-037-20   Carbon Resistor 1/4W 100 OHM   R3221   R-CB-037-20   Carbon Resistor 1/4W 100 OHM   R3221   R-CB-037-20   Carbon Resistor 1/4W 100 OHM   R3222   R-CB-037-20   Carbon Resistor 1/4W 100 OHM   R324   R-CB-037-20   Carbon Resistor 1/4W 100 OHM   R325   R-CB-049-20   Carbon Resistor 1/4W 10K   R326   R-CB-049-20   Carbon Resistor 1/4W 10K   R327   R-CB-063-20   Carbon Resistor 1/4W 10K   R328   R-CB-063-20   Carbon Resistor 1/4W 39K   R329   R-MR-005-40   Metal Resistor 1/4W 150K   R329   R-MR-005-40   Metal Resistor 1/4W 150K   R330   R-CB-046-20   Carbon Resistor 1/4W 150K   R331   R-CB-046-20   Carbon Resistor 1/4W 150K   R341   R-CB-008-20   Metal Resistor 1/4W 1 K   R342   R-CB-037-20   Carbon Resistor 1/4W 1 K   R343   R-CB-046-20   Carbon Resistor 1/4W 1 K   R344   R-MR-003-40   Metal Resistor 1/4W 4.7K   R345   R-CB-045-20   Carbon Resistor 1/4W 4.7K   R346   R-CB-037-20   Carbon Resistor 1/4W 4.7K   R347   R-MR-003-40   Metal Resistor 1/4W 4.7K   R348   R-CB-045-20   Carbon Resistor 1/4W 3.8K   R349   R-CB-045-20   Carbon Resistor 1/4W 3.8K   R350   R-CB-045-20   Carbon Resistor 1/4W 3.8K   R351   R-CB-045-20   Carbon Resistor 1/4W 3.8K   R352   R-CB-037-20   Carbon Resistor 1/4W 3.8K   R353   R-CB-037-20   Carbon Resist			
R139, R239   R-CB-041-30   Carbon Resistor 11/2W 2.2K   R140, R240   R-MR-001-40   Metal Resistor, 1W 4.7 OHM   R141, R241   R.XR-009-00   Cement Resistor, 3W 0.22 OHM   R142, R242   R-CB-029-20   Carbon Resistor 11/4W 20 OHM   R143, R243   R-CB-040-20   Carbon Resistor 11/4W 39K   R144, R244   R-CB-056-20   Carbon Resistor 11/4W 39K   R144, R246   R-CB-040-30   Carbon Resistor 11/4W 20 OHM   R301, R302   R-CB-033-20   Carbon Resistor 11/4W 20 OHM   R303, R304   R-CB-065-20   Carbon Resistor 11/4W 470 OHM   R303, R306   R-CB-057-20   Carbon Resistor 11/4W 47K   R307, R309   R-CB-057-20   Carbon Resistor 11/4W 47K   R313, R314   R-CB-049-20   Carbon Resistor 11/4W 10K   R315   R-CB-073-20   Carbon Resistor 11/4W 10K   R321   R-CB-073-20   Carbon Resistor 11/4W 10M   R3221   R-CB-037-20   Carbon Resistor 11/4W 10M   R324   R-CB-037-20   Carbon Resistor 11/4W 10 OHM   R325   R-CB-037-20   Carbon Resistor 11/4W 10 OHM   R326   R-CB-049-20   Carbon Resistor 11/4W 10 OHM   R327   R-CB-049-20   Carbon Resistor 11/4W 10 OHM   R328   R-CB-066-20   Carbon Resistor 11/4W 270K   R329   R-MR-005-40   Metal Resistor 11/4W 39K   R330   R-CB-066-20   Carbon Resistor 11/4W 39K   R330   R-CB-066-20   Carbon Resistor 11/4W 39K   R331   R-CB-069-20   Carbon Resistor 11/4W 39K   R332   R-CB-037-20   Carbon Resistor 11/4W 39K   R333   R-CB-046-20   Carbon Resistor 11/4W 150K   R334   R-CB-046-20   Carbon Resistor 11/4W 150K   R341   R-CB-008-20   Metal Resistor 11/4W 1 K   R342   R-CB-037-20   Carbon Resistor 11/4W 1 K   R343   R-CB-046-20   Carbon Resistor 11/4W 1 K   R344   R-CB-037-20   Carbon Resistor 11/4W 1 K   R345   R-CB-037-20   Carbon Resistor 11/4W 1 K   R346   R-CB-037-20   Carbon Resistor 11/4W 3 K   R347   R-MR-003-40   Metal Resistor 11/4W 3 K   R348   R-CB-045-20   Carbon Resistor 11/4W 3 K   R349   R-CB-037-20   Carbon Resistor 11/4W 3 K   R340   R-CB-037-20   Carbon Resistor 11/4W 3 K   R350   R-CB-037-20   Carbon Resistor 11/4W 3 K   R351   R-CB-037-20   Carbon Resistor 11/4W 3 K   R352   R-CB-037-20   Carbon Re			
R140, R240         R-MR-001-40         Metal Resistor, 1W 4.7 OHM           R141, R241         R-XR-009-00         Cement Resistor, 3W 0.22 OHM           R142, R242         R-CB-029-20         Carbon Resistor, 1/4W 220 OHM           R143, R243         R-CB-040-20         Carbon Resistor 1/4W 220 OHM           R144, R244         R-CB-056-20         Carbon Resistor 1/4W 220 OHM           R301, R302         R-CB-033-20         Carbon Resistor 1/4W 220 OHM           R301, R304         R-CB-057-20         Carbon Resistor 1/4W 47K           R305, R306         R-CB-057-20         Carbon Resistor 1/4W 47K           R307, R309         R-CB-057-20         Carbon Resistor 1/4W 47K           R313, R314         R-CB-049-20         Carbon Resistor 1/4W 10K           R316         R-CB-037-20         Carbon Resistor 1/4W 10K           R316         R-CB-037-20         Carbon Resistor 1/4W 10O OHM           R321         R-CB-037-20         Carbon Resistor 1/4W 10           R322, R323         R-CB-037-20         Carbon Resistor 1/4W 10           R324         R-CB-037-20         Carbon Resistor 1/4W 10K           R325         R-CB-049-20         Carbon Resistor 1/4W 10K           R326         R-CB-068-20         Carbon Resistor 1/4W 270K           R327         R-CB-			
R142, R242         R-CB-029-20         Carbon Resistor, 1/4W, 220 OHM           R143, R243         R-CB-040-20         Carbon Resistor 1/4W, 18K           R144, R244         R-CB-040-30         Carbon Resistor 1/4W, 39K           R146, R246         R-CB-040-30         Carbon Resistor 1/4W, 220 OHM           R301, R302         R-CB-065-20         Carbon Resistor 1/4W, 470 OHM           R303, R304         R-CB-065-20         Carbon Resistor 1/4W, 47K           R305, R306         R-CB-057-20         Carbon Resistor 1/4W, 47K           R307, R309         R-CB-057-20         Carbon Resistor 1/4W, 47K           R315         R-CB-049-20         Carbon Resistor 1/4W, 10K           R315         R-CB-073-20         Carbon Resistor 1/4W, 10K           R316 – R319         F-JP-004-00         Jumper Wire, 12m/m           R321         R-CB-025-20         Carbon Resistor 1/4W, 100 OHM           R322, R323         R-CB-025-20         Carbon Resistor 1/4W, 100 OHM           R324         R-CB-08-025-20         Carbon Resistor 1/4W, 100 OHM           R325         R-CB-063-20         Carbon Resistor 1/4W, 10K           R326         R-CB-063-20         Carbon Resistor 1/4W, 27K           R328         R-CB-063-20         Carbon Resistor 1/4W, 39K           R329 <t< td=""><td></td><td>R-MR-001-40</td><td></td></t<>		R-MR-001-40	
R143, R243	R141, R241	R-XR-009-00	Cement Resistor, 3W 0.22 OHM
R144, R244         R-CB-056-20         Carbon Resistor 1/4W 39K           R146, R246         R-CB-040-30         Carbon Resistor 1/4W 220 OHM           R301, R302         R-CB-033-20         Carbon Resistor 1/4W 470 OHM           R303, R304         R-CB-065-20         Carbon Resistor 1/4W 220K           R305, R306         R-CB-057-20         Carbon Resistor 1/4W 47K           R307, R309         R-CB-057-20         Carbon Resistor 1/4W 10K           R313, R314         R-CB-049-20         Carbon Resistor 1/4W 10K           R315         R-CB-073-20         Carbon Resistor 1/4W 10M           R316 - R319         F-JP-004-00         Jumper Wire, 12m/m           R321         R-CB-025-20         Carbon Resistor 1/4W 100 OHM           R322, R323         R-CB-025-20         Carbon Resistor 1/4W 100 OHM           R324         R-CB-025-20         Carbon Resistor 1/4W 100 OHM           R325         R-CB-049-20         Carbon Resistor 1/4W 100 OHM           R326         R-CB-066-20         Carbon Resistor 1/4W 10K           R327         R-CB-063-20         Carbon Resistor 1/4W 150K           R328         R-CB-056-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1/4W 5 6K           R341         R-CB-045-20	R142, R242	R-CB-029-20	Carbon Resistor, 1/4W 220 OHM
R146, R246         R-CB-040-30         Carbon Resistor 1/4W 220 OHM           R301, R302         R-CB-033-20         Carbon Resistor 1/4W 470 OHM           R303, R304         R-CB-065-20         Carbon Resistor 1/4W 220K           R305, R306         R-CB-057-20         Carbon Resistor 1/4W 47K           R307, R309         R-CB-057-20         Carbon Resistor 1/4W 47K           R313, R314         R-CB-049-20         Carbon Resistor 1/4W 10K           R315         R-CB-073-20         Carbon Resistor 1/4W 1M           R316 – R319         F-JP-004-00         Jumper Wire, 12m/m           R321         R-CB-025-20         Carbon Resistor 1/4W 10O OHM           R322, R323         R-CB-037-20         Carbon Resistor 1/4W 10O OHM           R324         R-CB-025-20         Carbon Resistor 1/4W 10K           R325         R-CB-049-20         Carbon Resistor 1/4W 10K           R326         R-CB-049-20         Carbon Resistor 1/4W 150K           R327         R-CB-063-20         Carbon Resistor 1/4W 39K           R328         R-CB-056-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1/4W 39K           R330         R-CB-046-20         Carbon Resistor 1/4W 39K           R341         R-CB-037-20         Carbon Re		R-CB-040-20	Carbon Resistor 1/4W 1.8K
R301, R302         R-CB-033-20         Carbon Resistor 1/4W 470 OHM           R303, R304         R-CB-065-20         Carbon Resistor 1/4W 220K           R305, R306         R-CB-057-20         Carbon Resistor 1/4W 47K           R307, R309         R-CB-057-20         Carbon Resistor 1/4W 47K           R313, R314         R-CB-049-20         Carbon Resistor 1/4W 10K           R315         R-CB-073-20         Carbon Resistor 1/4W 10M           R316 – R319         F-JP-004-00         Jumper Wire, 12m/m           R321         R-CB-025-20         Carbon Resistor 1/4W 100 OHM           R322, R323         R-CB-037-20         Carbon Resistor 1/4W 100 OHM           R324         R-CB-025-20         Carbon Resistor 1/4W 100 OHM           R325         R-CB-049-20         Carbon Resistor 1/4W 100 OHM           R326         R-CB-049-20         Carbon Resistor 1/4W 100 OHM           R327         R-CB-068-20         Carbon Resistor 1/4W 150K           R328         R-CB-056-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1/4W 39K           R330         R-CB-046-20         Carbon Resistor 1/4W 36K           R341         R-CB-037-20         Carbon Resistor 1/4W 1K           R342         R-CB-037-20         Carbon			
R303, R304         R-CB-065-20         Carbon Resistor 1/4W 220K           R305, R306         R-CB-057-20         Carbon Resistor 1/4W 47K           R307, R309         R-CB-057-20         Carbon Resistor 1/4W 47K           R313, R314         R-CB-049-20         Carbon Resistor 1/4W 10K           R315         R-CB-073-20         Carbon Resistor 1/4W 10M           R316         R-CB-073-20         Carbon Resistor 1/4W 10M           R316         R-CB-025-20         Carbon Resistor 1/4W 10O OHM           R321         R-CB-025-20         Carbon Resistor 1/4W 10O OHM           R322, R323         R-CB-037-20         Carbon Resistor 1/4W 10O OHM           R324         R-CB-025-20         Carbon Resistor 1/4W 10O OHM           R325         R-CB-049-20         Carbon Resistor 1/4W 10O OHM           R326         R-CB-066-20         Carbon Resistor 1/4W 15OK           R327         R-CB-066-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1/4W 56K           R330         R-CB-046-20         Carbon Resistor 1/4W 56K           R341         R-CB-037-20         Carbon Resistor 1/4W 1K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor 1/4			
R305, R306         R-CB-057-20         Carbon Resistor 1/4W 47K           R307, R309         R-CB-057-20         Carbon Resistor 1/4W 47K           R313, R314         R-CB-049-20         Carbon Resistor 1/4W 10K           R315         R-CB-073-20         Carbon Resistor 1/4W 1M           R316 - R319         F-JP-004-00         Jumper Wire, 12m/m           R321         R-CB-025-20         Carbon Resistor 1/4W 100 OHM           R322, R323         R-CB-037-20         Carbon Resistor 1/4W 100 OHM           R324         R-CB-025-20         Carbon Resistor 1/4W 10K           R325         R-CB-049-20         Carbon Resistor 1/4W 270K           R326         R-CB-066-20         Carbon Resistor 1/4W 270K           R327         R-CB-063-20         Carbon Resistor 1/4W 35K           R328         R-CB-065-20         Carbon Resistor 1/4W 150K           R330         R-CB-064-20         Carbon Resistor 1/4W 56K           R341         R-CB-046-20         Carbon Resistor 1/4W 56K           R341         R-CB-037-20         Carbon Resistor 1/4W 1K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor 1/4W 1K           R344         R-MR-003-40         Metal Resistor 1/4W 1K <td></td> <td></td> <td></td>			
R307, R309         R-CB-057-20         Carbon Resistor 1/4W 47K           R313, R314         R-CB-049-20         Carbon Resistor 1/4W 10K           R315         R-CB-073-20         Carbon Resistor 1/4W 1M           R316 - R319         F-JP-004-00         Jumper Wire, 12m/m           R321         R-CB-025-20         Carbon Resistor 1/4W 100 OHM           R321         R-CB-037-20         Carbon Resistor 1/4W 100 OHM           R322, R323         R-CB-037-20         Carbon Resistor 1/4W 100 OHM           R324         R-CB-052-20         Carbon Resistor 1/4W 100 OHM           R325         R-CB-049-20         Carbon Resistor 1/4W 10K           R326         R-CB-066-20         Carbon Resistor 1/4W 150K           R327         R-CB-063-20         Carbon Resistor 1/4W 39K           R328         R-CB-063-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1/4W 5 6K           R341         R-CB-046-20         Carbon Resistor 1/4W 5 6K           R341         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor 1/4W 1K           R344         R-MR-003-40         Metal Resistor, 1W 220 OHM           R345         R-CB-045-20         Carbon Resistor 1/4W 1K			
R313, R314         R-CB-049-20         Carbon Resistor 1/4W 10K           R315         R-CB-073-20         Carbon Resistor 1/4W 1M           R316 - R319         F-JP-004-00         Jumper Wire, 12m/m           R321         R-CB-025-20         Carbon Resistor 1/4W 100 0HM           R322, R323         R-CB-037-20         Carbon Resistor 1/4W 100 0HM           R324         R-CB-025-20         Carbon Resistor 1/4W 100 0HM           R325         R-CB-049-20         Carbon Resistor 1/4W 10K           R326         R-CB-066-20         Carbon Resistor 1/4W 270K           R327         R-CB-063-20         Carbon Resistor 1/4W 39K           R328         R-CB-063-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1W 1K           R330         R-CB-046-20         Carbon Resistor 1/4W 5 6K           R341         R-CB-037-20         Metal Resistor, 1W 5 6K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor 1/4W 1K           R344         R-MR-003-40         Metal Resistor, 1W 220 0HM           R345         R-CB-045-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 1K			
R315         R-CB-073-20         Carbon Resistor 1/4W 1M           R316 – R319         F-JP-004-00         Jumper Wire, 12m/m           R321         R-CB-025-20         Carbon Resistor 1/4W 100 0HM           R322         R-CB-037-20         Carbon Resistor 1/4W 100 0HM           R324         R-CB-025-20         Carbon Resistor 1/4W 100 0HM           R325         R-CB-049-20         Carbon Resistor 1/4W 100 0HM           R326         R-CB-066-20         Carbon Resistor 1/4W 270K           R327         R-CB-063-20         Carbon Resistor 1/4W 150K           R328         R-CB-056-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1W 1K           R330         R-CB-046-20         Carbon Resistor 1/4W 5 6K           R341         R-CB-008-20         Metal Resistor 1/4W 1K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-037-20         Carbon Resistor 1/4W 1K           R344         R-MR-003-40         Metal Resistor 1/4W 1X           R345         R-CB-037-20         Carbon Resistor 1/4W 4.7K           R346         R-CB-045-20         Carbon Resistor 1/4W 4.7K           R347         R-MR-003-40         Carbon Resistor 1/4W 4.7K			
R316 – R319         F-JP-004-00         Jumper Wire, 12m/m           R321         R-CB-025-20         Carbon Resistor 1/4W 100 OHM           R322, R323         R-CB-037-20         Carbon Resistor 1/4W 100 OHM           R324         R-CB-025-20         Carbon Resistor 1/4W 100 OHM           R325         R-CB-049-20         Carbon Resistor 1/4W 100 OHM           R326         R-CB-066-20         Carbon Resistor 1/4W 270K           R327         R-CB-063-20         Carbon Resistor 1/4W 150K           R328         R-CB-056-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1W 1K           R330         R-CB-046-20         Carbon Resistor 1/4W 5 6K           R341         R-CB-008-20         Metal Resistor 1/4W 1K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-037-20         Carbon Resistor 1/4W 1K           R344         R-MR-003-40         Metal Resistor 1/4W 1K           R345         R-CB-045-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 4.7K           R347         R-MR-003-40         Carbon Resistor 1/4W 4.7K           R351         R-CB-049-20         Carbon Resistor 1/4W 15K			
R321         R-CB-025-20         Carbon Resistor 1/4W 100 OHM           R322, R323         R-CB-037-20         Carbon Resistor 1/4W 1K           R324         R-CB-025-20         Carbon Resistor 1/4W 100 OHM           R325         R-CB-049-20         Carbon Resistor 1/4W 10K           R326         R-CB-066-20         Carbon Resistor 1/4W 270K           R327         R-CB-063-20         Carbon Resistor 1/4W 39K           R328         R-CB-056-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1W 1K           R330         R-CB-046-20         Carbon Resistor 1/4W 5 6K           R341         R-CB-008-20         Metal Resistor, 1W, 5.6K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor 1/4W 1K           R344         R-MR-003-40         Metal Resistor, 1W 220 OHM           R345         R-CB-045-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 1K           R347         R-MR-003-40         Carbon Resistor 1/4W 4.7K           R351         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           <	R316~R319	F-JP-004-00	
R324         R-CB-025-20         Carbon Resistor 1/4W 100 OHM           R325         R-CB-049-20         Carbon Resistor 1/4W 10K           R326         R-CB-066-20         Carbon Resistor 1/4W 270K           R327         R-CB-063-20         Carbon Resistor 1/4W 150K           R328         R-CB-056-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1W 1K           R330         R-CB-046-20         Carbon Resistor 1/4W 5 6K           R341         R-CB-008-20         Metal Resistor, 1W, 5 6K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor 1/4W 1K           R344         R-MR-003-40         Metal Resistor, 1W 220 OHM           R345         R-CB-045-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 1K           R347         R-MR-003-40         Carbon Resistor 1/4W 10K           R351         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R501, R601         R-CB-054-20         Carbon Resistor 1/4W 3K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3K	R321	R-CB-025-20	
R325         R-CB-049-20         Carbon Resistor 1/4W 10K           R326         R-CB-066-20         Carbon Resistor 1/4W 270K           R327         R-CB-063-20         Carbon Resistor 1/4W 150K           R328         R-CB-056-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1/4W 5 6K           R330         R-CB-046-20         Carbon Resistor 1/4W 5 6K           R341         R-CB-008-20         Metal Resistor, 1/4W 5 6K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor 1/4W 4.7K           R344         R-MR-003-40         Metal Resistor, 1/4W 220 0HM           R345         R-CB-045-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 1K           R350         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R501, R601         R-CB-057-20         Carbon Resistor 1/4W 3K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3K           R603         R-CB-061-20         Carbon Resistor 1/4W 22K	R322, R323	R-CB-037-20	Carbon Resistor 1/4W 1K
R326         R-CB-066-20         Carbon Resistor 1/4W 270K           R327         R-CB-063-20         Carbon Resistor 1/4W 150K           R328         R-CB-056-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1W 1K           R330         R-CB-046-20         Carbon Resistor 1/4W 5 6K           R341         R-CB-008-20         Metal Resistor, 1/4W 5 6K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor 1/4W 4.7K           R344         R-MR-003-40         Metal Resistor, 1/4W 220 OHM           R345         R-CB-037-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 1K           R347         R-MR-003-40         Carbon Resistor 1/4W 10K           R350         R-CB-049-20         Carbon Resistor 1/4W 15K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor 1/4W 15K           R501, R601         R-CB-043-20         Carbon Resistor 1/4W 37K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 37K           R603         R-CB-051-20         Carbon Resistor 1/4W 100K			
R327         R-CB-063-20         Carbon Resistor 1/4W 150K           R328         R-CB-056-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1W 1K           R330         R-CB-046-20         Carbon Resistor 1/4W 5 6K           R341         R-CB-008-20         Metal Resistor, 1/4W 5 6K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor 1/4W 4 7K           R344         R-MR-003-40         Metal Resistor, 1/4W 220 OHM           R345         R-CB-037-20         Carbon Resistor 1/4W 4.7K           R346         R-CB-045-20         Carbon Resistor 1/4W 4.7K           R347         R-MR-003-40         Carbon Resistor 1/4W 4.7K           R350         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor 1/4W 15K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R501, R601         R-CB-043-20         Carbon Resistor 1/4W 3.8           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3.8           R603         R-CB-061-20         Carbon Resistor 1/4W 100K			
R328         R-CB-056-20         Carbon Resistor 1/4W 39K           R329         R-MR-005-40         Metal Resistor 1W 1K           R330         R-CB-046-20         Carbon Resistor 1/4W 5 6K           R341         R-CB-008-20         Metal Resistor, 1W, 5.6K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor, 1W 20 0HM           R344         R-MR-003-40         Metal Resistor, 1W 220 0HM           R345         R-CB-037-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 4.7K           R347         R-MR-003-40         Carbon Resistor 1/4W 4.7K           R350         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor 1/4W 15K           R501, R601         R-CB-057-20         Carbon Resistor 1/4W 3.8K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3.3K           R503, R603         R-CB-051-20         Carbon Resistor 1/4W 22K           R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 22K  <			
R329         R-MR-005-40         Metal Resistor 1W 1K           R330         R-CB-046-20         Carbon Resistor 1/4W 5 6K           R341         R-CB-008-20         Metal Resistor, 1W, 5.6K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor, 1W 220 OHM           R344         R-MR-003-40         Metal Resistor, 1W 220 OHM           R345         R-CB-037-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 4.7K           R347         R-MR-003-40         Carbon Resistor 1/4W 220 OHM           R350         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor 1/4W 15K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor 1/4W 3.3K           R501, R601         R-CB-043-20         Carbon Resistor 1/4W 3.3K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3.3K           R603         R-CB-061-20         Carbon Resistor 1/4W 22K           R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K			
R330         R-CB-046-20         Carbon Resistor 1/4W 5 6K           R341         R-CB-008-20         Metal Resistor, 1W, 5.6K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor, 1/4W 1K           R344         R-MR-003-40         Metal Resistor, 1/4W 220 OHM           R345         R-CB-037-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 1K           R347         R-MR-003-40         Carbon Resistor 1/4W 220 OHM           R350         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor 1/4W 15K           R501, R601         R-CB-057-20         Carbon Resistor 1/4W 3.3K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3.3K           R603, R603         R-CB-061-20         Carbon Resistor 1/4W 22K           R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 1K			
R341         R-CB-008-20         Metal Resistor, TW, 5.6K           R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor 1/4W 1K           R344         R-MR-003-40         Metal Resistor, TW 220 OHM           R345         R-CB-037-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 4.7K           R347         R-MR-003-40         Carbon Resistor 1/4W 10K           R350         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor 1/4W 15K           R501, R601         R-CB-057-20         Carbon Resistor 1/4W 3.K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3.K           R603, R603         R-CB-061-20         Carbon Resistor 1/4W 160K           R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 1K			1
R342         R-CB-037-20         Carbon Resistor 1/4W 1K           R343         R-CB-045-20         Carbon Resistor 1/4W 4 7K           R344         R-MR-003-40         Metal Resistor, 1W 220 0HM           R345         R-CB-037-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 17K           R347         R-MR-003-40         Carbon Resistor 1/4W 10K           R350         R-CB-049-20         Carbon Resistor 1/4W 16K           R351         R-CB-051-20         Carbon Resistor 1/4W 16K           R352         R-XB-002-40         Carbon Resistor 1/4W 16K           R501, R601         R-CB-057-20         Carbon Resistor 1/4W 3/K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3/K           R603, R603         R-CB-061-20         Carbon Resistor 1/4W 16OK           R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 1K			
R343         R-CB-045-20         Carbon Resistor 1/4W 4.7K           R344         R-MR-003-40         Metal Resistor, 1W 220 OHM           R345         R-CB-037-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 4.7K           R347         R-MR-003-40         Carbon Resistor 1/4W 10K           R350         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor 1/4W 10K           R501, R601         R-CB-057-20         Carbon Resistor 1/4W 47K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3.3K           R603         R-CB-061-20         Carbon Resistor 1/4W 100K           R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 1K	R342		
R344         R-MR-003-40         Metal Resistor, 1W 220 OHM           R345         R-CB-037-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 4.7K           R347         R-MR-003-40         Carbon Resistor 1/4W 220 OHM           R350         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor 1/4W 10OHM           R501, R601         R-CB-057-20         Carbon Resistor 1/4W 47K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3.3K           R603         R-CB-061-20         Carbon Resistor 1/4W 100K           R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 1K	R343	R-CB-045-20	
R345         R-CB-037-20         Carbon Resistor 1/4W 1K           R346         R-CB-045-20         Carbon Resistor 1/4W 4.7K           R347         R-MR-003-40         Carbon Resistor 1W 220 OHM           R350         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor 1/4W 10OHM           R501, R601         R-CB-057-20         Carbon Resistor 1/4W 47K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3.3K           R603         R-CB-061-20         Carbon Resistor 1/4W 100K           R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 1K	R344	R-MR-003-40	
R347         R-MR-003-40         Carbon Resistor IW 220 OHM           R350         R-C8-049-20         Carbon Resistor 1/4W 10K           R351         R-C8-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor IW 120 OHM           R501, R601         R-C8-057-20         Carbon Resistor I/4W 47K           R502, R602         R-CB-043-20         Carbon Resistor I/4W 33K           R603, R603         R-C8-061-20         Carbon Resistor I/4W 160K           R701 ~R703         R-CB-053-20         Carbon Resistor I/4W 22K           R704         R-CB-037-20         Carbon Resistor I/4W 1K			Carbon Resistor 1/4W 1K
R350         R-CB-049-20         Carbon Resistor 1/4W 10K           R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor 1/4W 15K           R501, R601         R-CB-057-20         Carbon Resistor 1/4W 47K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3.3K           R603, R603         R-CB-061-20         Carbon Resistor 1/4W 100K           R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 1K			
R351         R-CB-051-20         Carbon Resistor 1/4W 15K           R352         R-XB-002-40         Carbon Resistor 1/4W 15K           R501, R601         R-CB-057-20         Carbon Resistor 1/4W 47K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3.3K           R503, R603         R-CB-061-20         Carbon Resistor 1/4W 160K           R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 1K			
R352   R-XB-002-40   Carbon Resistor 144V 47K   R501, R601   R-CB-057-20   Carbon Resistor 1.44V 47K   R502, R602   R-CB-043-20   Carbon Resistor 1/44V 3.3K   R503, R603   R-CB-061-20   Carbon Resistor 1/44V 100K   R701 ~R703   R-CB-053-20   Carbon Resistor 1/44V 22K   R704   R-CB-037-20   Carbon Resistor 1/44V 1K   R704   R-CB-037-20   Carbon Resistor 1/44V 1K   R704   R-CB-037-20   Carbon Resistor 1/44V 1K   R-CB-037-20   R-CB-037-20   Carbon Resistor 1/44V 1K   R-CB-037-20   R-CB-037-20   Carbon Resistor 1/44V 1K   R-CB-037-20   R-CB-037			
R501, R601         R-CB-057-20         Carbon Resistor 1/4W 47K           R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3.3K           R503, R603         R-CB-061-20         Carbon Resistor 1/4W 1/0K           R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 1/K			
R502, R602         R-CB-043-20         Carbon Resistor 1/4W 3.3K           R503, R603         R-CB-061-20         Carbon Resistor 1/4W 1/00K           R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 1/K			
R503. R603         R-CB-061-20         Carbon Resistor 1/4W 100K           R701~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 1K			
R701 ~R703         R-CB-053-20         Carbon Resistor 1/4W 22K           R704         R-CB-037-20         Carbon Resistor 1/4W 1K			
R704 R-CB-037-20 Carbon Resistor 1:44V 1K	R701 ~R703		
R/05 R-CB-049-20 Carbon Resistor 1:4W 10K			Carbon Resistor 1:4W 1K
	н/05	R-CB-049-20	Carbon Resistor 1/4W 10K

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#### 9.3 FUNCTION PCB

#### 9.4 VQIUME PCB





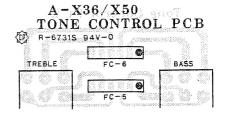
FC-10 4 VOLUME P.C.B VOL VR30I

VR301

F-PC-014-03 F-VR-016-00

Volume PC B. A-X36 VR, RK16312AE412-250KB - 2-RK

## 9.5 TONE CONTROL PCB



Bass/Treble FC-5 FC-6

E-PC-014-04 E-VR-014-00 W-PA-004-00 W-PA-003-00

Tone control PC.B. A-X36 VR RK163121B006-100KC × 2-RK Pallal wire, 6p, 300m/m Pallal wire, 6p, 255m/m

E-PC-014-02 A-LD-004-00 D301-D303 D304 A-LD-012-00 A-DO-001-00 ZD303 R-CB-037-00 R310,R311 R312 R-CB-041-00 SW301-SW304 E-SW-011-00 W-CN-029-00 FC-1 W-CN-028-00 FC-2

Function P.C.B. A-X36 LED, L-562-GD LED, 2 - 5 ORG Zener alo in 6 3V Carbon resistor, 1/4W, 1k Carbon relastor, 1/4W, 2.2k Tack SVv. STHHAR2510-RK Connector vote, 4p. 250m/m Connector wire, 5p. 190m/m

#### 9.8 HEADPHONE PCB

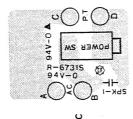


E-PC-014-07 E-JK-016-00

J301

H/P PC.B. A-X36 Headphone jack, DHX-600

# 9.6 POWER SW PCB



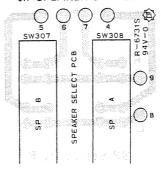
E-PC-014-05 E-SW-001-00 Power SW C-XC-004-00 SPK-1

Power SW PCB Power Sw, SDDLB1027U-RK

Sparl-killer, 0.005µ/500V (General Export) Sparl-killer, 0.0047µ/500V (Europe/UK/Aus.) Spari-killer, 0.01 µ 250V (USA/Canada)

E-PC-014-08 A-LD-012-00 W-CI1-030-00 LED PC.B. A-X36 LED 2×5 ORG Connector wire, 2p, 230m/m

9.7 SPEAKER SW PCB



	E-PC-014-01
VR302	E-VR-015-00
SW305/SW306	E-SW-007-00
C120,C220	C-ML-009-10
C121,C221	C-CM-029-10
C122,C222	C-ML-016-10
R120,R220	R-CB-041-20
R121,R221	R-CB-061-20
R122,R222	R-CB-037-20
R123,R223	R-CB-058-20
R124,R224	R-CB-053-20
R125,R225	R-CB-037-20
R126,R226	R-CB-037-20
FC-3	W-PA-002-00
FC 1	://-PA-001-00
FC-40	:W-PA-005-00

VR/SW P.C.B. A-X36 VR, RK163121A069-250KMN-RK Push SW. SPUF24AE01-RK Mylar, 0.0047µ;50V(J) Ceramic, 220p/50V Mylar, 0.018µ/50V (K) Carbon resistor, 1/4W, 2.2K Carbon resistor, 1/4W, 100k Carbon resistor, 1/4W, 1K Carbon resistor, 1/4W, 56K Carbon resistor, 1/4W, 22K Carbon resistor, 1/4W, 1K Carbon resistor, 1:4W, 1K Pallal wire, 3p, 200m/m Palial wire, 3p, 110m/m Pallal wire, 10p, 80m/m